IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Full Name of Sole or First Assignor Arthur CASTLE	Assignor's Signature	Date
Address 708 Quince Orchard Road, Ga	ithersburg, Maryland, 20878	Citizenship U.S.A.
Full Name of Second Assignor Brandon HIGGS	Assignor's Signature	Date (0(13/03
Address 708 Quince Orchard Road, G	aithersburg, Maryland, 20878	Citizenship U.S.A.
Full Name of Third Assignor Michael ELASHOFF	Assignor's Signature	Date
Address 708 Quince Orchard Road, Ga	aithersburg, Maryland, 20878	Citizenship U.S.A.
Full Name of Fourth Assignor Mark PORTER	Assignor's Signature	Date
Address 708 Quince Orchard Road, Ga	ithersburg, Maryland, 20878	Citizenship U.S.A.
Names of additional inventors attached	☐Yes ⊠No	



U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office						
	ATTORNEY DOCKET NO.:. 044921-5124					
As a below named inventor, I hereby						
My residence, post office address and	citizenship are as stated below n	ext to my name,				
I believe I am the original, first and so names are listed below) of the subject						
NU	CLEIC ACID DETECTION A	SSAY CONTROL GENES				
The specification of which:						
is attached hereto; or						
was filed as United States application	Serial No. <u>10/620,765</u> on <u>July 17</u>	7, 2003 and was amended on	(if applicable); or			
was filed as PCT international application (if applicable).	ation Number on an	d was amended under PCT Articl	e 19			
I hereby state that I have reviewed an amended by any amendment referred		bove-identified specification, inc	luding the claims, as			
I acknowledge the duty to disclose to claims presented in this application in						
I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate or Section 365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.						
PRIOR FOREIGN APPLICATION(S):						
COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED			
()			Yes No			
			☐ Yes ☐ No			
			☐ Yes ☐ No			
			Yes No			

	Combined	l Declaration for Pat	ent Application and acludes Reference to		
	ATTORNEY DOCKET NO.: 044921-5124				
I hereby claim th application(s) lis	e benefits under Title 35 ted below.	, United States Code	Section 119(e) of	any United Sta	tes provisional
		OVISIONAL APPL		· · · · · · · · · · · · · · · ·	
U.S. PROVISIONAL AP	PLICATION NO.		FILING DATE:		
60/396,145		July 17, 2	002	····	
· · · · · · · · · · · · · · · · · · ·					· · · · · · · · · · · · · · · · · · ·
Section 365(c) of below and, insoft application(s) in acknowledge the material to the pa Regulations, Sec national or PCT	e benefit under Title 35, fany PCT international ar as the subject matter of the manner provided by duty to disclose to the Untentability of claims pretion 1.56 which became international filing date of PLICATIONS OR PCT 1	application(s) design of each of the claims the first paragraph o J.S. Patent and Trade sented in this applica available between the of this application:	ating the United State of this application if Title 35, United State all inflation in accordance e filing date of the	ates of America is not disclosed tates Code, Secondation know with Title 37, prior application	a that is/are listed I in that/those prior ction 112, I /n to me to be Code of Federal on(s) and the
U.S. OR PCT IN	TERNATIONAL ATIONS	OTT A T	HG (Cl1 O)		
APPLICATION NO.	FILING DATE	PATENTED	US (Check One) PENDING	AF	BANDONED
					<u> </u>
& Bockius LLP i		r Number provided b	elow to prosecute t	his application	and to transact all
Direct Telephone Calls To	o:	202-739-3000			

Combined Declaration for Patent Application and Power of Attorney - (Continued) (includes Reference to PCT International Applications) ATTORNEY DOCKET NO.: 044921-5124					
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.					
FULL NAME OF SOLE OR FIRST INVENTOR	Arthur CASTLE				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878				
	ST OR SOLE INVENTOR'S SIGNATURE DATE				
	att Cell 14/03				
FULL NAME OF SECOND INVENTOR	Brandon HIGGS				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
POST OFFICE ADDRESS 708 Quince Orchard Road, Gaithersburg, MD 20878					
SECOND INVENTOR'S SIGNATUR	L RE	DATE			
FULL NAME OF THIRD INVENTOR	Michael ELASHOFF				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
PÖST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878				
THIRD INVENTOR'S SIGNATURE DATE					
Listing of Inve	entors Continued on attached page(s):	☐ Yes ☐ No			

	(inclu	Application and Power of Attorney - (Continued) udes Reference to PCT International Applications) OCKET NO.: 044921-5124	
FULL NAME OF FOURTH INVENTOR	Mark PORTER		
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.	
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878		
Listing	of Inventors Continued on attached pag	e(s): Yes No	

OT 30 2003 4

ARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office ATTORNEY DOCKET NO.: 044921-5124 As a below named inventor, I hereby declare that: My residence, post office address and citizenship are as stated below next to my name, I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: NUCLEIC ACID DETECTION ASSAY CONTROL GENES The specification of which: is attached hereto; or was filed as United States application Serial No. 10/620,765 on July 17, 2003 and was amended on _____ (if applicable); or was filed as PCT international application Number _____ on ____ and was amended under PCT Article 19 On (if applicable). I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations Section 1.56. I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate or Section 365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed. PRIOR FOREIGN APPLICATION(S): DATE OF FILING COUNTRY PRIORITY CLAIMED (if PCT, indicate PCT) APPLICATION NUMBER (day, month, year) ∏No ☐ Yes ☐ Yes ☐ No Yes ☐ No ☐ Yes ☐ No

	Combined		(in	nt Application cludes Reference EY DOCKET	nce t	o PCT Inter	nati	orney - (Continued) ional Applications) 24
I hereby claim the application(s) list	e benefits under Title 35,	United States (Code	Section 119(e) of	any United	Sta	tes provisional
application(s) list		NAIGTONIAT AT	DDI I	CATIONIC				
U.S. PROVISIONAL API		OVISIONAL A		FILING DAT	E.			
60/396,145	LICATION NO.	July 1			<u>L.</u>			
00/390,143		July 1	7, 20					
				· · · · · · · · · · · · · · · · · · ·				
Section 365(c) of below and, insofa application(s) in acknowledge the material to the pa Regulations, Sect	e benefit under Title 35, any PCT international a ar as the subject matter of the manner provided by the duty to disclose to the Unitentability of claims pression 1.56 which became a nternational filing date of	pplication(s) de f each of the cla the first paragra .S. Patent and T sented in this ap available between	signatims of phoformal of the contract of the	ting the United of this applicant Title 35, United and Italiant Office and Italiant	ed St tion ted S Il inf ance	ates of Ame is not disclo states Code, formation kn with Title 3	rica sed Sed now 37, 0	a that is/are listed I in that/those prior ction 112, I on to me to be Code of Federal
PRIOR U.S. APF BENEFIT: U.S. OR PCT IN	PLICATIONS OR PCT I			APPLICATIO	NS I	DESIGNAT	INC	G THE U.S. FOR
APPLIC				JS (Check Or				
APPLICATION NO.	FILING DATE	PATENTEI)	PENDING	} _		AB	ANDONED
				<u> </u>	<u> </u>		닏	
		L	<u> </u>	L			Ш	
]					
& Bockius LLP i		Number provid	led be	elow to prosec	ute t	this applicat	ion	and to transact all
Direct Telephone Calls To):	202-739-3	000					

Combined Declaration for Patent Application and Power of Attorney - (Continued) (includes Reference to PCT International Applications) ATTORNEY DOCKET NO.: 044921-5124				
information and belief are believed willful false statements and the like	e so made are punishable by fine or imp , and that such willful false statements r	nents were made with the knowledge that orisonment, or both, under Section 1001 of		
FULL NAME OF SOLE OR FIRST INVENTOR	Arthur CASTLE			
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.		
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878			
FIRST OR SOLE INVENTOR'S SIGN	NATURE	DATE		
FULL NAME OF SECOND INVENTOR	Brandon HIGGS			
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.		
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878			
SECOND INVENTOR'S SIGNATUR	!E.	DATE		
Z1.5		10/13/03		
FULL NAME OF THIRD INVENTOR	Michael ELASHOFF			
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.		
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878			
THIRD INVENTOR'S SIGNATURE	<u> </u>	DATE		
Listing of Invo	entors Continued on attached page(s):	X Ves No		

	(incl	Application and Power of Attorney - (Continued) udes Reference to PCT International Applications) OOCKET NO.: 044921-5124		
FULL NAME OF FOURTH INVENTOR	Mark PORTER			
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.		
POST OFFICE ADDRESS 708 Quince Orchard Road, Gaithersburg, MD 20878				
Listing o	f Inventors Continued on attached pag	e(s): Yes No		



DECEARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY

U.S. DEPARTMENT OF COMMERCE				
	Patent and	Trademark Office		
		ATTORNEY DOCKET NO.:	044921-5124	
As a below named inventor, I hereby	declare that:			
My residence, post office address and	d citizenship are as stated below i	next to my name,		
I believe I am the original, first and s names are listed below) of the subject	ole inventor (if only one name is t matter which is claimed and for	listed below) or an original, first which a patent is sought on the i	and joint inventor (if plural nvention entitled:	
NU	CLEIC ACID DETECTION A	ASSAY CONTROL GENES		
The specification of which:				
is attached hereto; or				
was filed as United States application	n Serial No. <u>10/620,765</u> on <u>July 1</u>	7, 2003 and was amended on	(if applicable); or	
£1-4 DCT into motional amplia	atian Number	ad was amandad undar DCT Artis	do 10	
was filed as PCT international applic On (if applicable).	ation Number on ar	id was amended under PCT Artic	16 19	
I hereby state that I have reviewed an		above-identified specification, in	cluding the claims, as	
amended by any amendment referred	to above.			
I acknowledge the duty to disclose to				
claims presented in this application in	n accordance with Title 37, Code	of Federal Regulations Section 1	.56.	
I hereby claim foreign priority benefit				
application(s) for patent or inventor's				
country other than the United States of inventor's certificate or any PCT interest.	of America listed below and have rnational application(s) designation	also identified below any foreign	the United States of America	
filed by me on the same subject matter				
PRIOR FOREIGN APPLICATION(S):			
COUNTRY		DATE OF FILING		
(if PCT, indicate PCT)	APPLICATION NUMBER	(day, month, year)	PRIORITY CLAIMED Yes No	
			Yes No	
			Yes No	
			☐ Yes ☐ No	

	Combined			o PCT Internat	ional Applications)
I hereby claim the application(s) lis	e benefits under Title 35 ted below.	, United States Code	Section 119(e) of	any United Sta	tes provisional
	U.S. PRO	OVISIONAL APPLI	CATIONS		
U.S. PROVISIONAL AP	PLICATION NO.	U.S.	FILING DATE:		
60/396,145 July 17, 2002			002		
Section 365(c) of below and, insoft application(s) in acknowledge the material to the particular Regulations, Sec	e benefit under Title 35, f any PCT international a ar as the subject matter of the manner provided by duty to disclose to the Unitentability of claims prestion 1.56 which became a international filing date of	application(s) designated feach of the claims of the claims of the first paragraph of the first patent and Trade sented in this applicated available between the	ating the United States this application in Title 35, United Smark Office all infition in accordance	ates of America is not disclosed tates Code, Sec formation know with Title 37, (a that is/are listed in that/those prior ction 112, I on to me to be Code of Federal
BENEFIT: U.S. OR PCT IN	PLICATIONS OR PCT I TERNATIONAL ATIONS		APPLICATIONS I	DESIGNATING	G THE U.S. FOR
APPLICATION NO.	FILING DATE	PATENTED	PENDING	AB	ANDONED
		П			
& Bockius LLP in business in the Parton that Customer Customer Number	er: 09629	Number provided be	elow to prosecute t	his application	and to transact all
Direct Telephone Calls To):				
		202-739-3000			

Combined Declaration for Patent Application and Power of Attorney - (Continued) (includes Reference to PCT International Applications) ATTORNEY DOCKET NO.: 044921-5124					
information and belief are believed willful false statements and the lik	d to be true; and further that these s te so made are punishable by fine or , and that such willful false stateme	ge are true and that all statements made on tatements were made with the knowledge that r imprisonment, or both, under Section 1001 of ents may jeopardize the validity of the			
FULL NAME OF SOLE OR FIRST INVENTOR	Arthur CASTLE				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878				
FIRST OR SOLE INVENTOR'S SIG	NATURE	DATE			
FULL NAME OF SECOND INVENTOR	Brandon HIGGS				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
POST OFFICE ADDRESS 708 Quince Orchard Road, Gaithersburg, MD 20878					
SECOND INVENTOR'S SIGNATUR	I RE	DATE			
FULL NAME OF THIRD INVENTOR	Michael ELASHOFF				
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.			
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878				
THIRD INVENTOR'S SIGNATURE Listing of Inve	ntors Continued on attached page(s	DATE 10/13/2003 DESCRIPTION OF THE PROPERTY			

	(inclu	Application and Power of Attorney - (Continued) ides Reference to PCT International Applications) OOCKET NO.: 044921-5124		
FULL NAME OF FOURTH INVENTOR	Mark PORTER			
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.		
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878			
Listing of Inventors Continued on attached page(s): Yes No				

01 P 200 30 200 3 4

COMBINED DECLARATION FOR PATENT APPLICATION AND POWER OF ATTORNEY U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office				
	ATTORNEY DOCKET NO.: 044921-5124			
As a below named inventor, I hereby				
	•			
My residence, post office address and	l citizenship are as stated below n	ext to my name,		
I believe I am the original, first and s names are listed below) of the subjec	ole inventor (if only one name is I t matter which is claimed and for	isted below) or an original, first a which a patent is sought on the in	and joint inventor (if plural nvention entitled:	
· NU	CLEIC ACID DETECTION A	SSAY CONTROL GENES		
The specification of which:				
is attached hereto; or				
was filed as United States application	Serial No. <u>10/620,765</u> on <u>July 17</u>	7, 2003 and was amended on	(if applicable); or	
was filed as PCT international applic On (if applicable).	ation Number on an	d was amended under PCT Artic	le 19	
I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.				
I acknowledge the duty to disclose to the U.S. Patent and Trademark Office information which is material to the patentability of claims presented in this application in accordance with Title 37, Code of Federal Regulations Section 1.56.				
I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365(b) of any foreign application(s) for patent or inventor's certificate or Section 365(a) of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign applications(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.				
PRIOR FOREIGN APPLICATION(S):				
COUNTRY (if PCT, indicate PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED	
(ii i O i, indicato i O i)	THE DIGITION NOMBER	(day, month, your)	Yes No	
			☐ Yes ☐ No	
			Yes No	
			Yes No	
		<u> </u>	· · · · · · · · · · · · · · · · · · ·	

				1.5	(C .: 1)
	Combined		ent Application and cludes Reference t EY DOCKET NO	o PCT Internat	ional Applications)
I hereby claim the application(s) list	e benefits under Title 35 ed below.	, United States Code	Section 119(e) of	any United Sta	tes provisional
	U.S. PRO	OVISIONAL APPLI	CATIONS		
U.S. PROVISIONAL APP	LICATION NO.		FILING DATE:		
60/396,145		July 17, 20	002		
Section 365(c) of below and, insofa application(s) in t acknowledge the material to the pa Regulations, Sect	e benefit under Title 35, any PCT international ar as the subject matter of the manner provided by a duty to disclose to the Utentability of claims presion 1.56 which became a ternational filing date of	pplication(s) designated feach of the claims of the first paragraph of the first paragraph of the first patent and Trade sented in this applicated available between the	ating the United St of this application Title 35, United S mark Office all inf tion in accordance	ates of America is not disclosed states Code, Secondation know with Title 37,	a that is/are listed I in that/those prior ction 112, I vn to me to be Code of Federal
PRIOR U.S. APP BENEFIT: U.S. OR PCT IN'	LICATIONS OR PCT I	NTERNATIONAL A	APPLICATIONS	DESIGNATIN	G THE U.S. FOR
APPLICA		STATI	JS (Check One)		
APPLICATION NO.	FILING DATE	PATENTED	PENDING	AF	BANDONED
THE EDICATION TO	11211(0 21112	П			1
		- - - - - - - - - -]
& Bockius LLP in		Number provided be	elow to prosecute	his application	and to transact all
Direct Telephone Calls To	:	202-739-3000			·

Combined Declaration for Patent Application and Power of Attorney - (Continued) (includes Reference to PCT International Applications) ATTORNEY DOCKET NO.: 044921-5124			
information and belief are believed willful false statements and the lik	I to be true; and further that these st e so made are punishable by fine or , and that such willful false statemen	e are true and that all statements made on tatements were made with the knowledge that imprisonment, or both, under Section 1001 of ints may jeopardize the validity of the	
FULL NAME OF SOLE OR FIRST INVENTOR	Arthur CASTLE		
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.	
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878		
FIRST OR SOLE INVENTOR'S SIG	NATURE	DATE	
FULL NAME OF SECOND INVENTOR	Brandon HIGGS		
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.	
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878		
SECOND INVENTOR'S SIGNATURE		DATE	
FULL NAME OF THIRD INVENTOR	Michael ELASHOFF		
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.	
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878		
THIRD INVENTOR'S SIGNATURE		DATE	
Listing of Inve	entors Continued on attached page(s	e): 🛛 Yes 🔲 No	

		Application and Power of Andes Reference to PCT Inter DOCKET NO: 044921	mational Applications)
FULL NAME OF FOURTH INVENTOR	Mark PORTER		10-13-03
RESIDENCE & CITIZENSHIP	Gaithersburg, Maryland	COUNTRY OF CITIZENSHIP U.S.A.	
POST OFFICE ADDRESS	708 Quince Orchard Road, Gaithersburg, MD 20878		
Listing	of Inventors Continued on attached page	e(s): Yes No	



FORM PTOUTS 958 AT (Rev. 6-93)

U.S. DEPARTMENT OF COMMERCE

Total number of pages including cover sheet, attachments and documents: 9

Patent and Trademark Office

RECORDATION FORM COVER SHEET

PATENTS ONLY Attorney Docket No.: 044921-5124 To the Commissioner for Patents ATTN: MAIL STOP ASSIGNMENT RECORDATION SERVICES Please record the attached original documents or copy thereof. Name and address of receiving party(ies): 1. Name of conveying party(ies): Arthur CASTLE Name: Gene Logic, Inc. **Brandon HIGGS** Michael ELASHOFF Internal Address: 708 Quince Orchard Road, Gaithersburg. Maryland 20878 Mark PORTER Additional names of conveying party(ies) attached? Yes ⊠ No Street Address: 3. Nature of conveyance: City: State: Zip: Assignment ☐ Merger Security Agreement Change of Name Other Additional name(s) & address(es).attached? Execution Date: October 19, 2003, October 13, 2003, ☐ Yes ☐ No October 13, 2003 and October 13, 2003 4. New Application number(s) or patent number(s): If this document is being filed together with a new application the execution date of the application is: A. Patent Application No.(s) 10/620,765 B. Patent No.(s) Additional numbers attached: Yes No Name and address of party to whom Total number of applications and patents involved: 1 correspondence concerning document should be mailed: Total fee (37 C.F.R. §3.41): <u>\$40.00</u> Enclosed Name: Michael S. Tuscan, Ph.D. Authorized to be charged to Deposit Account 50-0310 Internal Address: Morgan, Lewis & Bockius LLP 8. Deposit Account No. 50-0310 Customer No. 09629 (Attach duplicate page if paying by deposit account) Street Address: 1111 Pennsylvania Ave., N.W. City: Washington State: D.C. Zip: 20004 9. Statement and Signature To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Michael S. Tuscan, Ph.D., Reg. No. 43,210 October 30, 2003 Name of Person Signing

OTPETCOM 3 0 2003 A

FORM PTO-1595 TRADE (Rev. 6-93)

U.S. DEPARTMENT OF COMMERCE

Patent and Trademark Office

RECORDATION FORM COVER SHEET PATENTS ONLY

PATENTS ONLY				
	Attorney Docket No.: 044921-5124			
	'N: MAIL STOP ASSIGNMENT RECORDATION SERVICES			
Please record the attached original documents or copy the				
1. Name of conveying party(ies):	2. Name and address of receiving party(ies):			
L. J. G. GMT P	Name: Gene Logic, Inc.			
Arthur CASTLE	Name. Gene Logic, mc.			
Brandon HIGGS Michael ELASHOFF	Internal Address: 708 Quince Orchard Road, Gaithersburg,			
Mark PORTER	Maryland 20878			
Mark FORTER	1122)24114 20070			
Additional names of conveying party(ies) attached?				
Yes No	Street Address:			
3. Nature of conveyance:	City:			
_	State: Zip:			
Assignment				
Security Agreement Change of Name	Additional name(s) & address(ss) attached?			
Other	Additional name(s) & address(es) attached?			
Execution Date: October 19, 2003, October 13, 2003,	☐ Yes No			
October 13, 2003 and October 13, 2003				
4. New Application number(s) or patent number(s):				
4. New Application number (5) of patent number (5).				
If this document is being filed together with a new applica	tion the execution date of the application is:			
A. Patent Application No.(s) 10/620,765	B. Patent No.(s)			
Additional numbers attached: Yes No				
5. Name and address of party to whom	6. Total number of applications and patents involved: 1			
correspondence concerning document should be	o. Total number of applications and patents involved. 1			
mailed:				
manod.	7. Total fee (37 C.F.R. §3.41): <u>\$40.00</u>			
Name: Michael S. Tuscan, Ph.D.	Enclosed			
,	Authorized to be charged to Deposit Account 50-0310			
Internal Address: Morgan, Lewis & Bockius LLP	8. Deposit Account No. 50-0310			
Customer No. 09629	(Attach duplicate page if paying by deposit account)			
	`			
Street Address: 1111 Pennsylvania Ave., N.W.				
City: Washington State: D.C. Zip: 20004				
9. Statement and Signature	banastion is two and compet and corrections and converted according			
To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true				
copy of the original document.				
Michael S. Tuscan, Ph.D., Reg. No. 43,210	U October 30, 2003			
Name of Person Signing Signature	Date			
	umber of pages including cover sheet, attachments and documents: 2			



ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

NUCLEIC ACID DETECTION ASSAY CONTROL GENES

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on <u>July 17, 2003</u>, (Serial No. <u>10/620,765</u>); and

WHEREAS, Gene Logic, Inc., a corporation of Delaware, whose post office address is 708 Quince Orchard Road, Gaithersburg, Maryland 20878 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to these inventions in all countries throughout the world, and in and to these applications for United States Letters Patent on these inventions and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to the invention(s) of this application, all national stage applications, all divisionals, continuations and continuations-in-part of the foregoing applications, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed in any foreign country and all Letters Patent which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

3.7

ATTORNEY DOCKET NO.: 044921-5124 SOLE/JOINT INVENTION (Worldwide Rights)

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

	L' nave nereunto set our nand(s).	
Full Name of Sole or First Assignor	Assignor's Signature	Date
Arthur CASTLE	with the	10/19/03
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Full Name of Second Assignor	Assignor's Signature	Date
Brandon HIGGS		
Address 708 Quince Orchard Road, Gait	hersburg, Maryland, 20878	Citizenship
		U.S.A.
Full Name of Third Assignor	Assignor's Signature	Date
Michael ELASHOFF		
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship
		U.S.A.
Full Name of Fourth Assignor	Assignor's Signature	Date
Mark PORTER		
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship
		U.S.A.
Names of additional inventors attached	☐Yes ⊠No	

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

NUCLEIC ACID DETECTION ASSAY CONTROL GENES

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on <u>July 17, 2003</u>, (Serial No. 10/620,765); and

WHEREAS, <u>Gene Logic, Inc.</u>, a corporation of <u>Delaware</u>, whose post office address is <u>708 Quince Orchard Road</u>, <u>Gaithersburg</u>, <u>Maryland 20878</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to these inventions in all countries throughout the world, and in and to these applications for United States Letters Patent on these inventions and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to the invention(s) of this application, all national stage applications, all divisionals, continuations and continuations-in-part of the foregoing applications, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed in any foreign country and all Letters Patent which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

NUCLEIC ACID DETECTION ASSAY CONTROL GENES

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on <u>July 17, 2003</u>, (Serial No. 10/620,765); and

WHEREAS, <u>Gene Logic</u>, <u>Inc.</u>, a corporation of <u>Delaware</u>, whose post office address is <u>708 Quince Orchard Road</u>, <u>Gaithersburg</u>, <u>Maryland 20878</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to these inventions in all countries throughout the world, and in and to these applications for United States Letters Patent on these inventions and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to the invention(s) of this application, all national stage applications, all divisionals, continuations and continuations-in-part of the foregoing applications, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed in any foreign country and all Letters Patent which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

IN TESTIMONY WHEREOF, I/WE have hereunto set our hand(s).

Full Name of Sole or First Assignor Arthur CASTLE	Assignor's Signature	Date
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Full Name of Second Assignor Brandon HIGGS	Assignor's Signature	Date
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Full Name of Third Assignor Michael ELASHOFF	Assignor's Signarure	Date 10/13/1207
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Full Name of Fourth Assignor Mark PORTER	Assignor's Signature	Date
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Names of additional inventors attached	☐Yes ⊠No	



ASSIGNMENT

WHEREAS I/We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

NUCLEIC ACID DETECTION ASSAY CONTROL GENES

for which I/WE executed an application for United States Letters Patent concurrently herewith; or filed an application for United States Letters Patent on <u>July 17, 2003</u>, (Serial No. 10/620,765); and

WHEREAS, <u>Gene Logic, Inc.</u>, a corporation of <u>Delaware</u>, whose post office address is <u>708 Quince Orchard Road</u>, <u>Gaithersburg</u>, <u>Maryland 20878</u> (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to these inventions in all countries throughout the world, and in and to these applications for United States Letters Patent on these inventions and the Letters Patent to be issued upon these applications;

NOW THEREFORE, be it known that, for good and valuable consideration the receipt of which from assignee is hereby acknowledged, I/WE, as assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignee, its lawful successors and assigns, MY/OUR entire right, title, and interest in and to the invention(s) of this application, all national stage applications, all divisionals, continuations and continuations-in-part of the foregoing applications, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such applications, and all applications for Letters Patent which may hereafter be filed in any foreign country and all Letters Patent which may be granted on these inventions in any foreign country, and all extensions, renewals, and reissues thereof; and I/WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for these inventions to assignee, its successors and assigns, in accordance with the terms of this Assignment;

AND, I/WE HEREBY covenant that I/WE have the full right to convey the interest assigned by this Assignment, and I/WE have not executed and will not execute any agreement in conflict with this Assignment;

IN TESTIMONY WHEREOF. I/WE have hereunto set our hand(s).

Full Name of Sole or First Assignor Arthur CASTLE	Assignor's Signature	Date
Address 708 Quince Orchard Road, Ga	ithersburg, Maryland, 20878	Citizenship U.S.A.
Full Name of Second Assignor Brandon HIGGS	Assignor's Signature	Date
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Full Name of Third Assignor Michael ELASHOFF	Assignor's Signature	Date
Address 708 Quince Orchard Road, Ga	Citizenship U.S.A.	
Full Name of Fourth Assignor Mark PORTER	Assignor's Signature	Date 10-13-03
Address 708 Quince Orchard Road, Gaithersburg, Maryland, 20878		Citizenship U.S.A.
Names of additional inventors attached	☐Yes ⊠No	